

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a computer system that is network connectable along with one or more other computer systems to a network, the computer system including a processor and system memory, a method for ~~formulating-creating~~ an electronic message that is ~~natively compatible with~~ can be sent using a plurality of different message protocols ~~and natively compatible a, that is formatted to be compatible~~ with a plurality of different message applications, and that can be stored and accessed ~~with increased efficiency by any of the plurality of different message applications using any of the plurality of different messaging protocols,~~ the method comprising:

an act of the processor creating a single message item representing the electronic message in accordance with a general message schema, the single message item ~~having creation including:~~

an act of defining one or more general data fields according to the general message schema that correspond to one or more general properties common to the plurality of different message protocols and common to the plurality of different message applications, ~~message item creation including: an act of assigning,~~ including at least one data field corresponding to a primary type to the message item, the primary type indicating a primary behavior of a plurality of content portions linked to the message item;

an act of ~~making the formatting the single~~ message item compatible for compatibility with the plurality of different message protocols, including for each different message protocol in the plurality of different message protocols:

an act of ~~attaching~~ adding protocol specific data fields from at least one protocol specific extension schema to the single message item itself, to make the plurality of linked content portions compatible with the message protocol, each protocol specific extension schema accounting for

any properties that are not common between the plurality of different message protocols; and

an act of assigning values to the protocol specific data fields within the single message item;

an act of ~~making the formatting the single message item compatible for compatibility~~ with the plurality of different message applications, including for each different message application in the plurality of different message applications:

an act of ~~attaching adding~~ application specific data fields from at least one application specific extension schema to the message item itself, to make the plurality of linked content portions compatible with the message application, each application specific extension schema accounting for properties that are not common between the plurality of different message applications~~[[,]]~~; and

an act of assigning values to the application specific data fields within the single message item; ~~properties of the at least one application specific extension; and~~

an act of assigning values to one or more of the general data fields, thereby defining at least one general property that is common between two different extension schemas; ~~and messaging extensions~~.

an act of sending the single message item, which has been formatted to include the protocol specific data fields for each of the plurality of different message protocols and the application specific data fields for each of the plurality of different message applications, to two or more of the plurality of different message applications via two or more of the plurality of different message protocols.

2. (Cancelled).

3. (Currently Amended) The method as recited in claim 1, wherein ~~the an act of assigning a primary type to the created message item comprises an act of assigning a primary type to the created message item,~~ the primary type ~~being is~~ selected from among: electronic mail message, instant message, fax message, voice message, and news group posting.

4. (Currently Amended) The method as recited in claim 3, wherein the act of ~~attaching at least one protocol specific message extension to the message item comprises an act of attaching at least one protocol specific extension to the message item, the at least one or more protocol specific extension being formatting the single message item for compatibility with the plurality of different message protocols comprises adding protocol specific data fields from at least two protocol specific extension schemas that are selected from among: electronic mail protocol extensions, instant messaging protocol extensions, fax protocol extensions, voice message protocol extensions, and~~[[.]] news group posting protocol extensions.

5. (Currently Amended) The method as recited in claim 3, wherein the act of ~~attaching adding protocol specific data fields from~~ at least one ~~application-protocol specific extension schema to the single message item itself~~ comprises an act of ~~attaching adding protocol specific data fields from~~ a POP3 protocol extension to the single message item, the POP3 protocol extension from an electronic mail POP3 extension schema.

6. (Currently Amended) The method as recited in claim 5, wherein the act of ~~attaching adding protocol specific data fields from~~ at least one ~~application-protocol specific extension schema to the single message item itself~~ comprises an act of ~~attaching adding protocol specific data fields from~~ an NNTP protocol extension from ~~the an~~ electronic mail NNTP extension schema to the single message item, ~~while the,~~ in addition to the protocol specific data fields previously added from the POP3 protocol extension, ~~also remains attached to the message item.~~

7. (Currently Amended) The method as recited in claim 3, wherein the act of ~~attaching-adding protocol specific data fields from~~ at least one protocol specific message extension schema to the single message item itself comprises an act of ~~attaching-adding protocol specific data fields from~~ a community news protocol extension to the single message item, the community news protocol extension from an electronic mail community news extension schema.

8. (Cancelled).

9. (Currently Amended) The method as recited in claim 1, wherein the act of ~~attaching at least one application specific extension to the message item~~ comprises an act of ~~attaching at least one application extension to the message item, the at least one more application extension being formatting the single message item for compatibility with the plurality of different message applications~~ comprises adding application specific data fields from at least two application specific extension schemas that are selected from among: electronic mail application extensions, instant messaging application extensions, fax application extensions, voice message application extensions, and news group posting application extensions.

10. (Currently Amended) The method as recited in claim 1, wherein the act of ~~attaching-adding application specific data fields from~~ at least one application specific extension schema to the single message item itself comprises an act of ~~attaching-adding application specific data fields from~~ a Microsoft® Outlook® Express application extension to the single message item.

11. (Cancelled).

12. (Currently Amended) The method as recited in claim 1, further comprising an act of supplementing the single message item with additional data to ~~make-format~~ the single message item ~~for further compatible-compatibility~~ with at least one additional message protocol or at least one additional message application, including:

an act of, subsequent to message creation, accessing the single message item;

an act of the processor snapping on additional data fields from a further message extension schema to the message item, thereby integrating the additional data fields into the single message item itself, the additional data fields defined in the further message extension schema having one or more new properties that are to be associated with the single message item to facilitate compatibility with an additional message protocol or an additional message application;

an act of retrieving at least one value from one or more other data fields attached to the single message item; and

an act of assigning the retrieved at least one value to at least one of the additional snapped on data fields to ~~make-format~~ the single message item ~~compatible-for compatibility~~ with the additional message protocol or the additional message application, such that the single message item contains data making it compatible with the plurality of different message protocols, the plurality of different message applications, and the additional message protocol or the additional message application.

13. (Currently Amended) The method as recited in claim 12, wherein the act of accessing the single message item comprises an act of accessing a single message item representing the electronic message, the single message item having the one or more general properties that are common to the plurality of different message protocols and the plurality of different message applications.

14. (Currently Amended) The message as recited in claim 12, wherein the act of snapping on additional data fields defined in a further message extension schema to the single message item comprises an act of snapping on additional data fields from a further message extension schema, the further message extension schema selected from among: electronic mail protocol extension schemas, instant messaging protocol extension schemas, fax protocol extension schemas, voice message protocol extension schemas, news group posting protocol extension schemas, electronic mail application extension schemas, instant messaging application extension schemas, fax application extension schemas, voice message application extension schemas, and news group posting application extension schemas.

15. (Currently Amended) The method as recited in claim 12, wherein ~~[[an]]~~the act of retrieving at least one value from other data fields attached to the single message item comprises ~~[[on]]~~an act of retrieving values from one or more data fields of a single message item that represents one of: an electronic mail message, a fax message, an instant message, a voice message, or a news group posting.

16. (Currently Amended) The method as recited in claim 12, wherein the act of assigning the retrieved at least one value to at least one of the additional snapped on data fields comprises an act of assigning a value retrieved from a data field defined in one of an electronic mail message extension schema, a fax message extension schema, an instant message extension schema, a voice message extension schema, or a news group posting extension schema, to a snapped on data field defined in one of an electronic mail message extension schema, a fax message extension schema, an instant message extension schema, a voice message extension schema, or a news group posting extension schema.

17-18. (Cancelled).

19. (Currently Amended) The method as recited in ~~claim 18~~claim 1, wherein ~~the at least one protocol specific property field comprises: a protocol specific property field representing one or more protocol specific message properties that correspond~~ data field corresponds to one of an electronic mail protocol, an instant messaging protocol, a fax protocol, a voice message protocol, or a news group protocol.

20. (Currently Amended) The method as recited in ~~claim 18~~claim 1, wherein ~~the act of creating a message item comprises an act of creating a message item including:~~ at least one application specific property field, ~~the at least one application specific property field representing~~ data field represents one or more application specific electronic message properties that correspond to a specific message application, the specific message application being selecting from among the plurality of different types of message applications that have the common electronic message properties represented in the general properties field in common.

21. (Cancelled)

22. (Currently Amended) The method as in ~~claim 21~~claim 1, wherein ~~the at least one application specific property field comprises: an application specific property field representing one or more application specific message properties that correspond~~ data field corresponds to one of an electronic mail application, an instant messaging application, a fax application, a voice message application, or a news group application.

23. (Currently Amended) The method as recited in claim 1, wherein the ~~act of creating a message item representing an electronic message comprises an act of creating a message item including one or more general data fields include:~~

- an ID field representing an identifier that identifies the electronic message within an message database;

- a primary type field representing a primary message type of the electronic message identified by the identifier represented in the ID field, the primary message type implying a behavior of the electronic message;

- at least one MessageParticipant relationship field representing links to one or more message participants associated with the electronic message identified by the identifier represented in the ID field;

- at least one MessageContents relationship field representing links to one or more portions of message content corresponding to the electronic message electronic message identified by the identifier represented in the ID field;

- at least one sent message folder relationship field representing links to one or more message folders the electronic message identified by the identifier represented in the ID field is to be moved to after being submitted for delivery; and

- a download state field representing a download state of the electronic message identified by the identifier represented in the ID field.

24. (Currently Amended) The method as recited in claim 23, wherein the ~~act of creating a message item further comprises an act of creating a message item including one or more general data fields also include:~~

- a message status field representing the status of the electronic message identified by the identifier represented in the ID field.

25. (Previously Presented) The method as recited in claim 24, wherein the message status field is comprised of:

- an IsRead field representing an indication of whether or not the electronic message is identified by the identifier represented in the ID field has been marked as read;

- a SendStatus field representing an indication of the send status of the electronic message identified by the identifier represented in the ID field;

- a LastActionTaken field representing an indication of the last action that was taken on the electronic message identified by the identifier represented in the ID field;

- a LastActionTime field representing the time that the last action indicated in the LastActionTaken field was taken; and

- a LastActionType field representing the type of that last action taken on the electronic message identified by the identifier represented in the ID field.

26. (Currently Amended) The method as recited in claim 1, wherein the ~~one or more~~ plurality of content portions linked to the single message item include:

- an electronic message relationship field representing a link to an electronic message, the link indicating that the portion of message content is associated with an electronic message;

- a content type field representing a content type corresponding to the portion of message content;

- an order field representing an order value, the order value indicating how the portion of message content is to be ordered with respect to other portions of message content that are also associated with the electronic message; and

- a content properties field representing additional properties of the content type represented in the content type field.

27 (Previously Presented) The method as recited in claim 26, wherein the content properties field comprises:

- an attachment type field representing an attachment type of the portion of message content.

28. (Previously Presented) The method as recited in claim 26, wherein the content properties field comprises:

a MIME URL field representing a link to a MIME path that corresponds to the portion of message content.

29. (Currently Amended) The method as recited in claim 1, wherein ~~the act of assigning a primary type to the message item, the primary type indicating a primary behavior of the one or more content portions linked to the item comprises an act of assigning a~~ the primary type ~~indicating~~ indicates the behavior of a message attachment attached to the single message item, wherein the message attachment includes:

an electronic message relationship field representing a link to the single message item, the link indicating that the message attachment is associated with the single message item;

a type field representing a message type of the electronic message linked to by the link represented in the electronic message link field, the message type implying a behavior of the electronic message;

an IsPinned field representing the deletion status of the message attachment with respect to the electronic message ;

an IsTrusted field representing trust information related to the message attachment; and

an attachment state field representing the type and behavior of the message attachment.

30. (Previously Presented) The method as recited in claim 29, wherein the message attachment further includes:

an attachment source relationship field representing a link to a database item where the message attachment was accessed.

31. (Previously Presented) The method as recited in claim 29, wherein the message attachment further includes:

an saved from relationship field representing a link to the message attachment.

32. (Currently Amended) The method as recited in claim 7, wherein the act of ~~assigning-adding protocol specific data fields from~~ a community news protocol extension from an electronic mail community news extension schema to the single message item ~~comprising comprises~~ an act of attaching data fields from the electronic mail community news extension schema to the single message item, the data fields including:

a community range field representing a collection of article ID ranges from a news group community that have been synchronized with community header properties;

a communities last refresh field representing the last time the community dynamic properties of the news group community including the collection of synchronized article IDs represented in the community range field was refreshed;

a low article ID field representing a low article ID included the a collection of synchronized article ID ranges represented in the community range field; and

a high article ID field representing a high article ID included the a collection of synchronized article ID ranges represented in the community range field.

33. (Cancelled).

34. (Currently Amended) The method as recited in claim 3, wherein the act of ~~creating a message item representing an electronic message comprises an act of creating a message item including~~one or more general data fields include:

- a primary type field defining a format for representing a primary message type corresponding to an electronic message, the primary message type implying a behavior of the electronic message;

- a participants relationship field defining a format for representing links to message participants, the message participants being associated with the electronic message having a primary message type defined in accordance with the primary message type format in the primary type field;

- a contents relationship field defining a format for representing links to one or more portions of message content, the one or more portions of content corresponding to the electronic message having a primary message type defined in accordance with the primary message type format in the primary type field;

- a sent message folder relationship field defining a format for representing links to one or more message folders that the electronic message, having a primary message type defined in accordance with the primary message type format in the primary type field, should be moved to after being submitted for delivery; and

- a download state field defining a format for representing download states corresponding to the electronic message having a primary message type defined in accordance with the primary message type format in the primary type field; and wherein the act of assigning a primary type to the message item comprises an act of assigning a value to the primary type field

35. (Currently Amended) The method as recited in claim 34, ~~an act of creating a message item comprises an act of creating a message item including wherein the one or more~~ general data fields also include:

a message status field defining a format for representing the status of the electronic message having a primary message type defined in accordance with the primary message type format in the primary type field, the message schema including or referring to a message status schema that defines the format for representing the status of the electronic message.

36. (Previously Presented) The method as recited in claim 35, wherein the message status field includes:

an IsRead field defining a format for representing an indication of whether or not the electronic message in identified by the identifier represented in the ID field has been marked as read;

a SendStatus field defining a format for representing an indication of the send status of the electronic message identified by the identifier represented in the ID field;

a LastActionTaken field defining a format for representing an indication of the last action that was taken on the electronic message identified by the identifier represented in the ID field;

a LastActionTime field defining a format representing the time that the last action indicated in the LastActionTaken field was taken;

a LastActionType field defining a format representing the type of that last action taken on the electronic message identified by the identifier represented in the ID field.

37-43. (Cancelled).

44. (Currently Amended) A computer program product for use in a computer system that is network connectable along with one or more other computer systems to a network, the computer program product for implementing a method for ~~formulating-creating~~ an electronic message that is ~~natively compatible with~~ can be sent via a plurality of different message protocols and natively compatible with a to a plurality of different message applications, can that be stored and accessed ~~with increased efficiency by any of the plurality of different message applications using any of the plurality of different messaging protocols,~~ the computer program product comprising one or more computer storage devices having stored thereon computer executable instructions that, when executed by a processor, cause the computer system to perform the following:

create a single message item representing the electronic message in accordance with a general message schema, the single message item ~~having creation including:~~

populating one or more general data fields according to the general message schema that correspond to one or more general properties common to the plurality of different message protocols and common to the plurality of different message applications, ~~message item creation including; assign, including at least one data field corresponding to~~ a primary type to the message item, the primary type indicating a primary behavior of a plurality of content portions linked to the message item;

make-populating the single message item with data fields that make the single message item compatible with the plurality of different message protocols, including for each different message protocol in the plurality of different message protocols:

attach-snapping on protocol specific data fields from at least one protocol extension schema to the single message item itself, to make the plurality of linked portions of content compatible with the message protocol, each protocol specific extension schema accounting for any properties that are not common between the plurality of different message protocols; and

assigning values to ~~properties-the protocol specific data fields of~~ the at least one protocol specific extension within the single message item;

~~make-populating the single message item with data fields that make the single message item compatible~~ with the plurality of different message applications, including for each different message application in the plurality of different message applications:

~~attach-snapping on~~ application specific data fields from at least one application specific extension to the message item itself, to make the plurality of linked content portions compatible with the message application, each application specific extension schema accounting for properties that are not common between the plurality of different message applications~~[[,]]; and [[:]]~~

assigning values to ~~properties-the application specific data fields of the at least one application specific extension within the single message item; [[and]]~~

~~an act of~~ assigning values to one or more of the general data fields, thereby defining at least one general property that is common between two different messaging extensions; ~~and~~

send the single message item, which has been populated with the protocol specific data fields for each of the plurality of different message protocols and the application specific data fields for each of the plurality of different message applications, to two or more of the plurality of different message applications via two or more of the plurality of different message protocols.

45. (Currently Amended) The computer program product as recited in claim 44, further comprising computer executable instructions that, when executed, cause the computer system to perform the following:

subsequent to message creation, access the single message item ;

snap on additional data fields defined from a further message extension schema to the message item, thereby integrating the additional data fields into the single message item itself, the additional data fields defined in the further message extension schema having one or more new properties that are to be associated with the single message item to facilitate compatibility with an additional message protocol or an additional message application;

~~an act of retrieving-retrieve~~ at least one value from one or more other data fields attached to the single message item; and

~~an act of assigning-assign~~ the retrieved at least one value to at least one of the additional snapped on data fields to ~~make-format~~ the single message item ~~compatible-for compatibility~~ with the additional message protocol or the additional message application, such that the single message item contains data making it compatible with the plurality of different message protocols, the plurality of different message applications, and the additional message protocol or the additional message application.

46-47. (Cancelled).

48. (Currently Amended) The method as recited in claim 12, wherein ~~the act of~~ snapping on additional data fields from ~~[[a]]the~~ further message extension schema to the single message item comprise act of snapping on additional data fields from an instant message application extension schema to a single message item that is currently compatible with an electronic mail message application; and

wherein ~~the act of~~ assigning the retrieved at least one value to at least one of the additional snapped on data fields to make the single message item compatible with the additional message protocol or the additional message application comprises an act of assigning the retrieved value to least one data field snapped on from the instant message application extension schema to make the single message item compatible with both an instant message application and the electronic mail message application.

49. (Currently Amended) The method as recited in claim 12, wherein ~~the act of~~ snapping on additional data fields from ~~[[a]]the~~ further message extension schema to the single message item comprise act of snapping on additional data fields from an electronic mail message application schema to a single message item that is currently compatible with first electronic mail message application; and

wherein ~~the act of~~ assigning the retrieved at least one value to at least one of the additional snapped on data fields to make the single message item compatible with the additional message protocol or the additional message application comprises an act of assigning the retrieved value to least one data field snapped on from the electronic mail message application extension schema to make the single message item compatible with both a second electronic mail message application and the first electronic mail message application.

50. (Currently Amended) The method as recited in claim 12, wherein ~~the act of~~ snapping on additional data fields from ~~[[a]]the~~ further message extension schema to the single message item comprise act of snapping on additional data fields from one of: a fax protocol schema and a voice message protocol schema to a single message item that is currently compatible with an electronic mail message protocol; and

wherein the act of assigning the retrieved at least one value to at least one of the additional snapped on data fields to make the single message item compatible with the additional message protocol or the additional message application comprises an act of assigning the retrieved value to least one data field snapped on from the one of the fax protocol schema and the voice message protocol schema to make the single message item compatible with the electronic mail protocol and one of a fax application and a voice message application corresponding to the fax protocol schema and the voice message protocol schema respectively.

51. (New) The method as recited in claim 1, wherein the an act of sending the single message item to two or more of the plurality of different message applications via two or more of the plurality of different message protocols comprises:

an act of sending the single message item to a first message application selected from the plurality of different message applications using a first message protocol selected from the plurality of different message protocols; and

an act of sending the single message item to a second different message application selected from the plurality of different message applications using a second different message protocol selected from the plurality of different message protocols.

52. (New) The method as recited in claim 1, wherein the an act of sending the single message item comprises sending the same data from the single message item to both the first message application and the second message application.